

IN THE CLAIMS

1. (currently amended) An array speaker apparatus comprising:

a frame;

a plurality of speaker units each operable to provide sound waves therefrom;

a plurality of cabinets arranged within the frame such that each cabinet in the frame has a number of side walls and a back wall and an opening portion in front thereof so as to form a respective cabinet which is substantially enclosed on all but one side, each said cabinet being adapted for accommodating one of the plurality of speaker units so that vibration plates of the plurality of speaker units are located at an internal side thereof relative to an end surface of the opening portions of the plurality of cabinets, in which said opening portion of each cabinet within the frame is arranged to face in a same direction to form a sound radiating surface;

means for causing the sound waves from the plurality of speaker units accommodated in the plurality of cabinets to be radiated therefrom in a plurality of different directions such that a main axis of directivity of the sound waves from one or more of the speaker units associated with a first channel is in a first direction, the main axis of directivity of the sound waves from one or more of the speaker units associated with a second channel is in a second direction which is different from the first direction, and the main axis of directivity of the sound waves from one or more of the speaker units associated with a third channel is in a third direction which is different from the first direction and the second direction; and

a projection screen serving as a sound transmission screen for displaying a projected image,

wherein the plurality of cabinets are arranged so that the end surface of the opening portions thereof are flush with each other, and adjacent cabinets are arranged in close contact with each other, and the projection screen is ~~attached in a state substantially in contact coupled~~ with the end surface of the opening portions such that each said opening portion of each said cabinet arranged within the frame faces the projection screen, and

the apparatus further comprising:

means for limiting vibration of the projection screen.

2. (previously presented) The array speaker apparatus as set forth in claim 1,

wherein the projection screen is extended and stretched toward the opening portions of the plurality of cabinets in such a manner to cover all plane surfaces having the opening portions of the plurality of cabinets.

3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

7. (previously presented) The array speaker apparatus as set forth in claim 2,

wherein the projection screen is extended and stretched toward the frame.

8. (previously presented) The array speaker apparatus as set forth in claim 1,

further comprising power amplifiers for generating unit drive signals delivered to each of the plurality of speaker units.

9. (previously presented) The array speaker apparatus as set forth in claim 1, in which the first channel is a right channel, the second channel is a left channel, and the third channel is a center channel.

10. (previously presented) The array speaker apparatus as set forth in claim 1, further comprising an adjustment unit having a device for enabling the main axis of directivity of the sound waves to be adjusted.

11. (currently amended) An array speaker apparatus comprising:

a frame;

a plurality of speaker modules arranged within the frame, each module being operable to provide sound waves therefrom; and

means for causing the sound waves from the plurality of speaker modules arranged within the frame to be radiated therefrom in a plurality of different directions such that a main axis of directivity of the sound waves from one or more of the speaker modules associated with a first channel is in a first direction, the main axis of directivity of the sound waves from one or more of the speaker modules associated with a second channel is in a second direction which is different from the first direction, and the main axis of directivity of the sound waves from one or more of the speaker modules associated with a third channel is in a third direction which is different from the first direction and the second direction;

in which each speaker module in the frame includes:
a speaker unit;

a cabinet having a number of side walls and a back wall and an opening portion in front thereof so as to form a respective cabinet which is substantially enclosed on all but one side and said cabinet being adapted for accommodating the speaker unit so that a vibration plate of the speaker unit is located at an internal side thereof relative to an end surface of the opening portion of the cabinet; and

a projection screen serving as a sound transmission screen for displaying a projected image, and extended and stretched toward the end surface of the opening portion of the cabinet in such a manner to cover a plane surface having the opening portion of the cabinet,

wherein the array speaker apparatus has a configuration in which the plurality of speaker modules are arranged such that each said opening portion of each said cabinet of each said speaker module arranged within the frame faces in a same direction so that each said projection screen is caused to be flush with each other, and so that adjacent cabinets are arranged in close contact with each other, and

said each speaker module further includes:

means for limiting vibration of the projection screen.